

UPPT CBIC

2015 APR 15 PM 12:30

April 14, 2015

US EPA Office of Pollution Prevention and Toxics  
1201 Constitution Avenue, NW  
WJC East; Room 6428; Attn: Section 8(e)  
Washington, DC 20004-3302

CBIC Control Number

**364693**

**SUBJECT: TSCA 8(e) Notice**

Dear TSCA Section 8(e) Coordinator:

On behalf of Akzo Nobel Functional Chemicals (AN FC) LLC we are submitting information on effects reported from the processing of 2,5-dimethyl-2,5-di(tert-butylperoxy)hexyne-3 CAS# 1068-27-5. This substance is a polymerization initiator and cross-linking agent. A small number of customer Workers have reported skin (rash) and eye (redness) reactions during processing of this substance.

It is not clear whether the reactions are due to a sensitization reaction or irritation. It is not clear whether they are due to 2,5-dimethyl-2,5-di(tert-butylperoxy)hexyne-3, degradation products, other substances present during customer processing, or to the overall process itself.

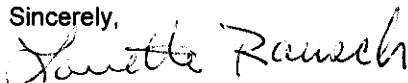
2,5-Dimethyl-2,5-di(tert-butylperoxy)hexyne-3 was tested in a GLP guinea pig maximization test (GPMT) and did not induce sensitization. The degradation products, hexyne and t-butanol, were also negative in the GPMT. Both 2,5-dimethyl-2,5-di(tert-butylperoxy)hexyne-3 and hexyne are skin irritants. Hexyne is classified for eye irritation, but effects were fully reversible within 8 days. t-Butanol is classified for eye irritation as well. The Safety Data Sheet for CAS# 1068-27-5 already warns against skin, eye and respiratory irritation.

The self-accelerating decomposition temperature (SADT) of 2,5-dimethyl-2,5-di(tert-butylperoxy)hexyne-3 is 80°C. In some customer processes, which resulted in skin and eye reactions, the temperature reached 180 to 200 °C. At this temperature it is unlikely that 2,5-dimethyl-2,5-di(tert-butylperoxy)hexyne-3, is present.

With the available information collected thus far, we do not know if the reported reactions are due to 2,5-dimethyl-2,5-di(tert-butylperoxy)hexyne-3. AN FC is in the process of gathering additional information.

Please contact me at (312) 544-7061 if you have any questions regarding this letter.

Sincerely,



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525 WEST VAN BUREN STREET

CHICAGO, IL 60607

Origin ID: GYYA

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Express

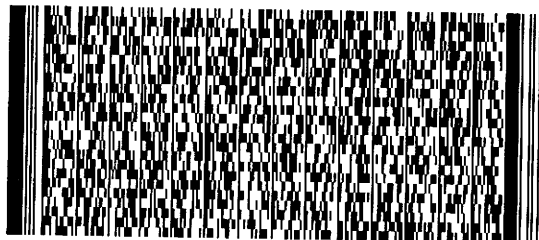


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SHIP TO: (202) 564-8940

BILL SENDER

ATTN: SECTION 8(E)  
U.S. EPA - POLLUTION PRVNTN & TXCS  
1201 CONSTITUTION AVE NW  
WJC EAST BUILDING ROOM 6428  
WASHINGTON, DC 20004



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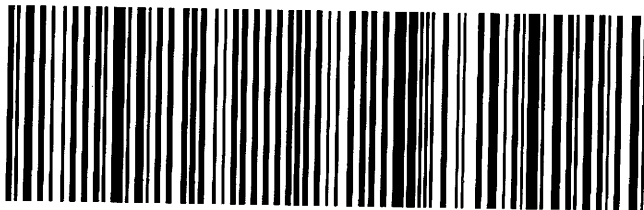
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